

Calculation of distribution of potential and electron concentration in the dust-electron thermal plasma with the axial geometry particles

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Abstract

© Published under licence by IOP Publishing Ltd. We obtained the equation, which describes the distribution of the potential and the electron density in an equilibrium dust-electron plasma taking into account parameters of the electron gas inside the axial geometry dust particles. The inclusion of these parameters performed on the basis of the model of "solid-state plasma," considering the condensed particle system as the ion core and the free electron gas.

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